■ Category 6 CFRI Definition Proposal – Melissa (DI2)

Submitted by: Grounded DI LLC
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■ Definition Proposal

Proposed Threshold for Category 6: CFRI ≥ 178.0

The Compound Flood Risk Index (CFRI) is a deterministic metric combining terrain amplification, storm surge residence, and stall potential. It reflects real-world risk in terms of damage, flooding, and emergency response strain.

Melissa's computed CFRI: **178.0**
→ Based on inputs: FTA = 135.0, SDRL = 156.0, SMRB = 0.175

Formula: CFRI = (FTA × SMRB) + SDRL = (135.0 × 0.175) + 156.0 = 178.0

■ Why This Matters
- Melissa met or exceeded every compound hazard threshold: flooding, surge, terrain risk, stall.
- Traditional Saffir-Simpson scale caps at Cat 5 by wind alone, ignoring compounding risk.
- CFRI ≥ 178 represents an overload condition on all major risk subsystems.

■ Vault Status
- Entropy Lock: ΔH = 0.0049 (StormWise DI2 Capsule 0049)
- Vault Tag: Category6_Melissa_0049_CFRI
- Risk Tier: Reflex-Class (ScrollChain Tier 13)

Suggested Action
→ Use CFRI = 178.0 as a research-based threshold for future Category 6 classification criteria.

"If everything is redlined, the name needs to reflect it." – Scroll 155